

Fort River Elementary School

Feasibility Study – School Committee Presentation

November 27, 2018



TSKP ARCHITECTURE | PLANNING | INTERIORS
STUDIO

Fort River School | Community Involvement



Presentation Goals:

1. Introduction to TSKP STUDIO
2. Update School Committee on Feasibility Study
3. Review the Options
4. Request Feedback

Design Quality | Simple... Child Friendly



Design Quality | Age Appropriate Scale



Design Quality | Natural Light... Welcoming



Design Quality | Multi-functioning Space



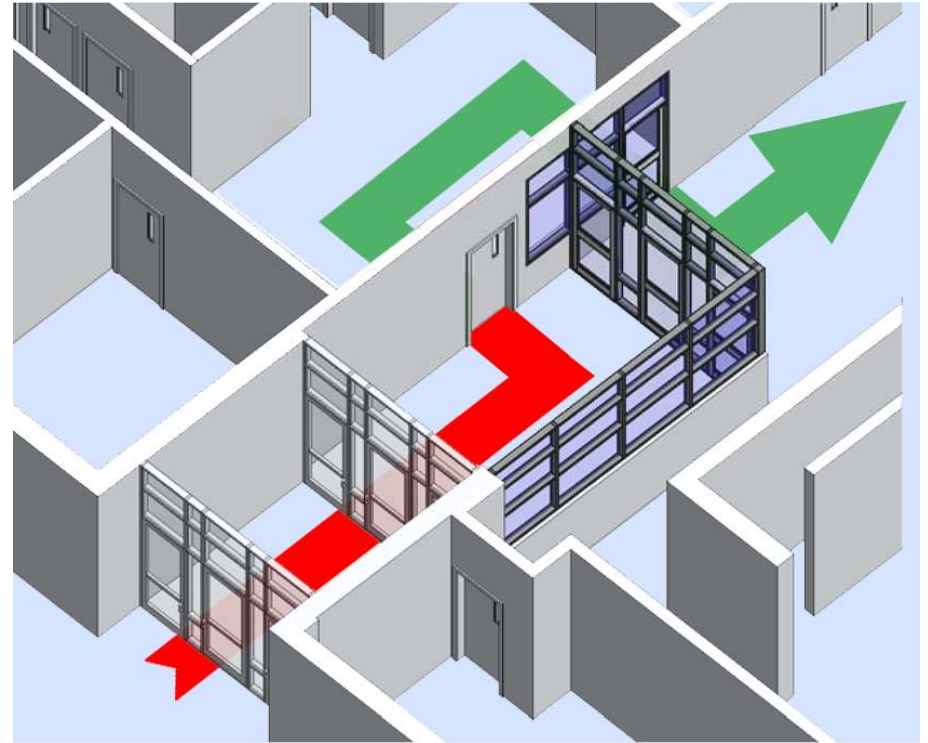
Design Quality | Beautiful and Durable



Design Quality | Connections to the Outdoors



Design Quality | Security + Safety



Existing Conditions Investigations

Existing Conditions | Summary

1. Deferred Capital Infrastructure Replacement Items

- ✓ Roof
- ✓ HVAC system
- ✓ Electrical system
- ✓ Window Replacement

2. Unsatisfied Educational Needs

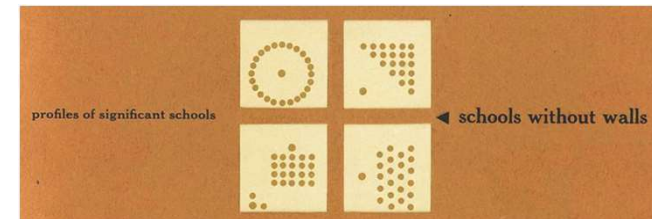
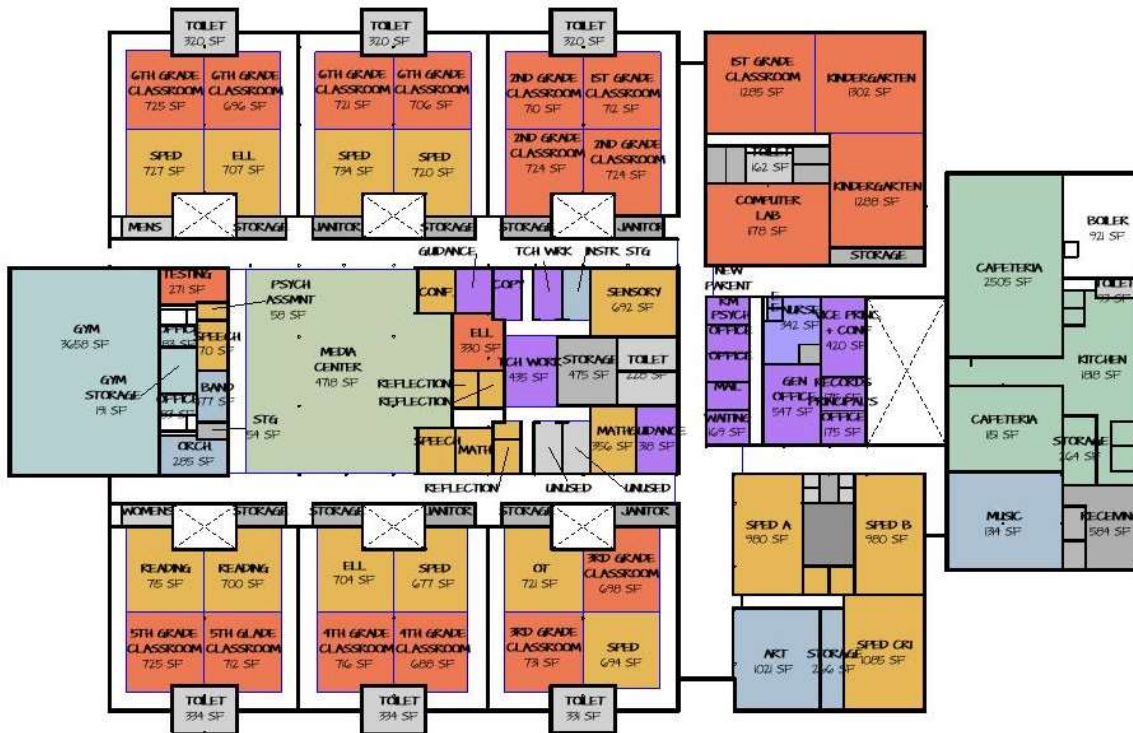
- ✓ Open Classrooms
- ✓ Accessibility
- ✓ Lighting
- ✓ Communication Systems
- ✓ Technology Infrastructure
- ✓ Interior Environment

3. Security

- ✓ Access Control
- ✓ Passive Surveillance, Building Exterior hardening, Classroom Security



Existing Conditions | Summary



Educational Facilities Laboratories c. 1958, - "Schools Without Walls"



Existing Conditions| Open Classrooms



Existing Conditions| Daylighting



Educational Space Needs

Educational Space Needs | Right Size

	Fort River Study Range				MSBA guidelines
K-6 Enrollment	315 ← → 420				420
Pre-K Enrollment (FTE)	0	45	0	45	45
Total Enrollment	315	360	420	465	465
Total Building Gross Floor Area	70,000	77,000	78,000	84,000	72,742

Compared to MSBA guidelines:

Amherst Classroom Guidelines	4,725
District SE (AIMS, Bldg. Blocks)	5,917
Pre-K Administration and Support	1,743
MSBA guideline (adjusted)	85,127

Educational Space Needs | Fort River Rooms + Educational Program

Fort River School Building Project Educational Program	
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3/16/16
Rev. 8/31/18

CORE ACADEMIC SPACES	
Pre-Kindergarten w/ toilet	3
Kindergarten w/ toilet	3
General Classrooms - Grade 1-6	18
Computer Lab / Maker Space	1
Break out Teaching Space (1 per grade 1-6)	6

SPECIAL EDUCATION	
Large group SE	1
Small group SE	2
Self-Contained SPED - toilet	3
AIMS Program	1
AIMS Program - Reflection Room	1
Building Blocks Program	2
Building Blocks Program - Reflection Room	2
ELL classrooms	2
Speech	2
Math	1
Assessment Room	1
Sensory	1
Office for ETL	1
Reflection Room	2
Reading	2
Occupational Therapy / Physical Therapy	1
Speech for PK	1
OT/PT for PK	1
Behavior Analyst for PK	1

ART & MUSIC	
Art Classroom - 25 seats	1
Art Workroom w/ Storage & kiln	1
Music Classroom / Large Group - 25-50 seats	1
Instrumental Music (6-8 students)	2

HEALTH & PHYSICAL EDUCATION	
Gymnasium	1
Gym Storeroom	1
Health Instructor's Office w/ Shower & Toilet	1

MEDIA CENTER	
Media Center / Reading Room	1

DINING & FOOD SERVICE	
Cafeteria / Dining	1
Stage	1
Chair / Table / Equipment Storage	1
Kitchen	1
Staff Lunch Room	1

MEDICAL	
Medical Suite Toilet	1
Nurses' Office / Waiting Room	1
Examination Room / Resting	2

ADMINISTRATION & GUIDANCE	
General Office / Waiting Room / Toilet	1
Teachers' Mail and Time Room	1
Duplicating Room	1
Records Room	1
Principal's Office w/ Conference Area	1
Principal's Secretary / Waiting	1
Assistant Principal's Office	1
Supervisory / Spare Office	1
Conference Room	1
Guidance Office	2
Guidance Office	1
Guidance Storeroom	1
Teachers' Work Room	2
Psychologist's Office	1
Parent Room	1
PK Coordinator w/Conf	1

CUSTODIAL & MAINTENANCE	
Custodian's Office	1
Custodian's Workshop	1
Custodian's Storage	1
Recycling Room / Trash	1
Receiving and General Supply	1
Storeroom	1
Network / Telecom Room	1

Sustainability and Net Zero

What makes it sustainable?

- Safe and Healthy
- Resource Efficient
- Flexible and Adaptable
- Durable and Maintainable



Massachusetts School Building Authority

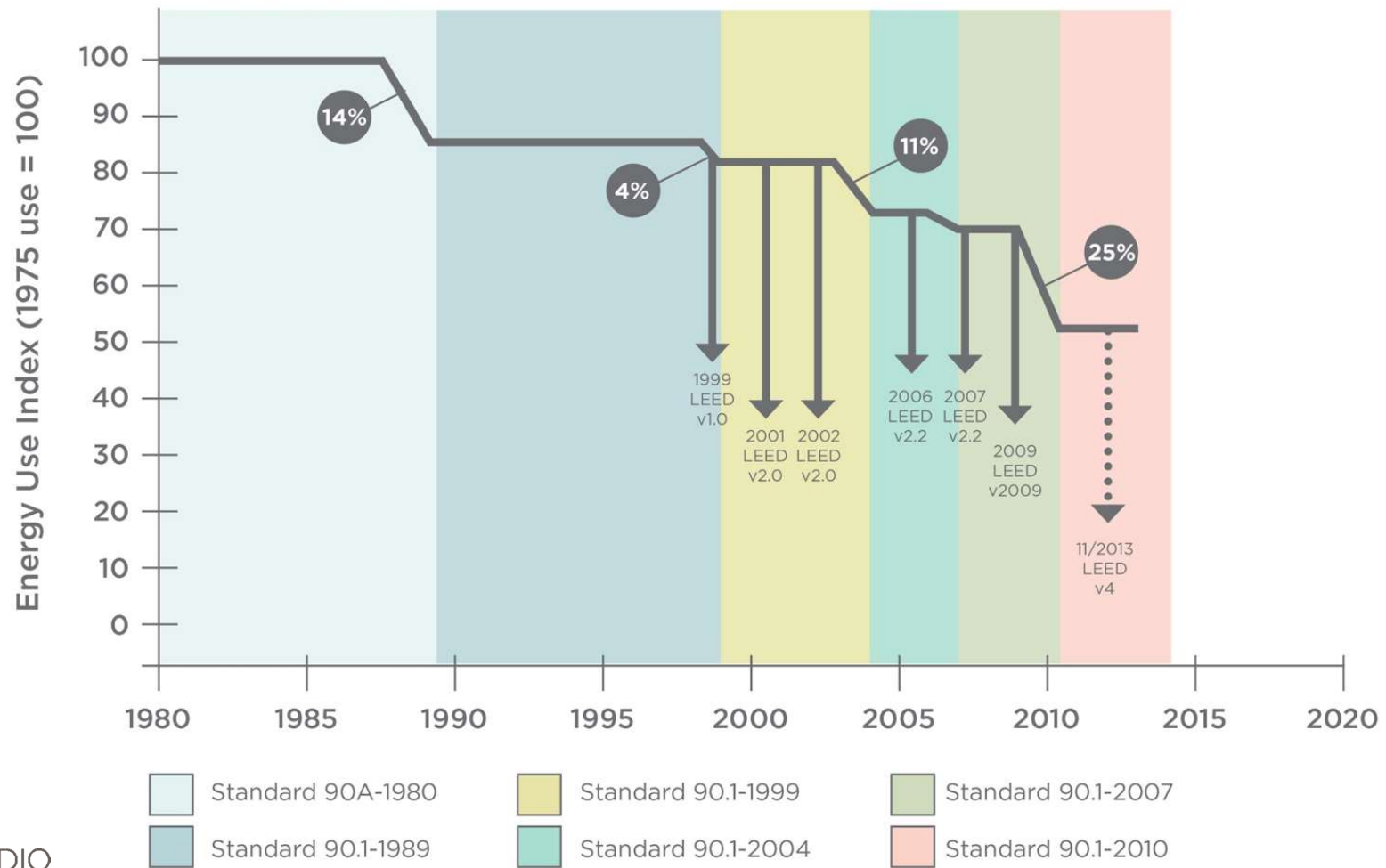
Funding Affordable, Sustainable, and Efficient Schools in Partnership with Local Communities

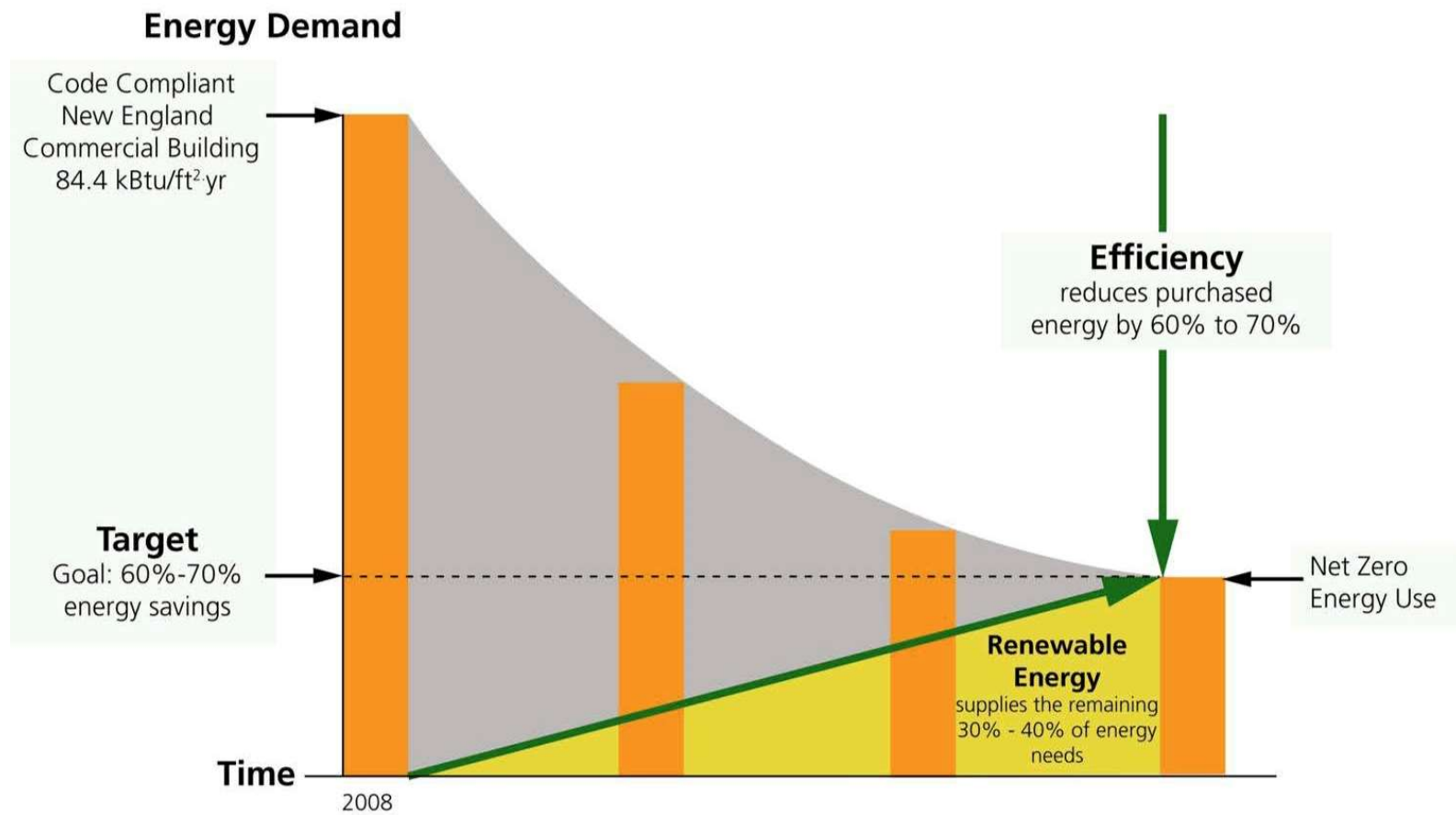
Minimum Requirements for funding:

- 1) LEED v4 Certified, or NE-CHPS Verified
- 2) 10% better than energy code

2% additional reimbursement for projects that can exceed energy code by at least 20%

Energy Codes and LEED Requirements





Source: Federal R&D Agenda for Zero-Net Energy high Performance Green Buildings, National Science and Technology Council, October 2008

Design Options

Design Options | Range of Options



NEW BUILDING

A



2 STORY ADDITION

B



1 STORY ADDITION

C



TWO SMALL
ADDITIONS

D



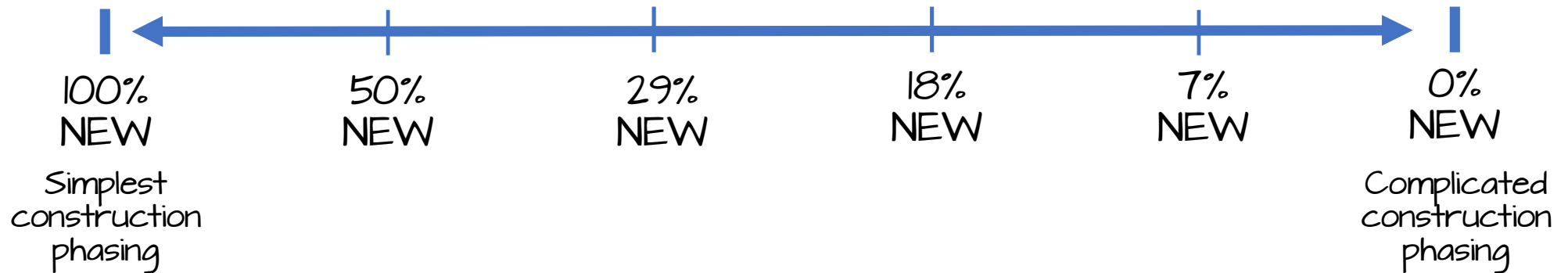
SMALL ADDITION

E



BASE REPAIR

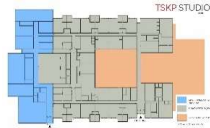
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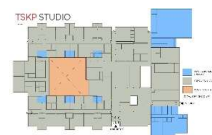
A



B



C



D



E



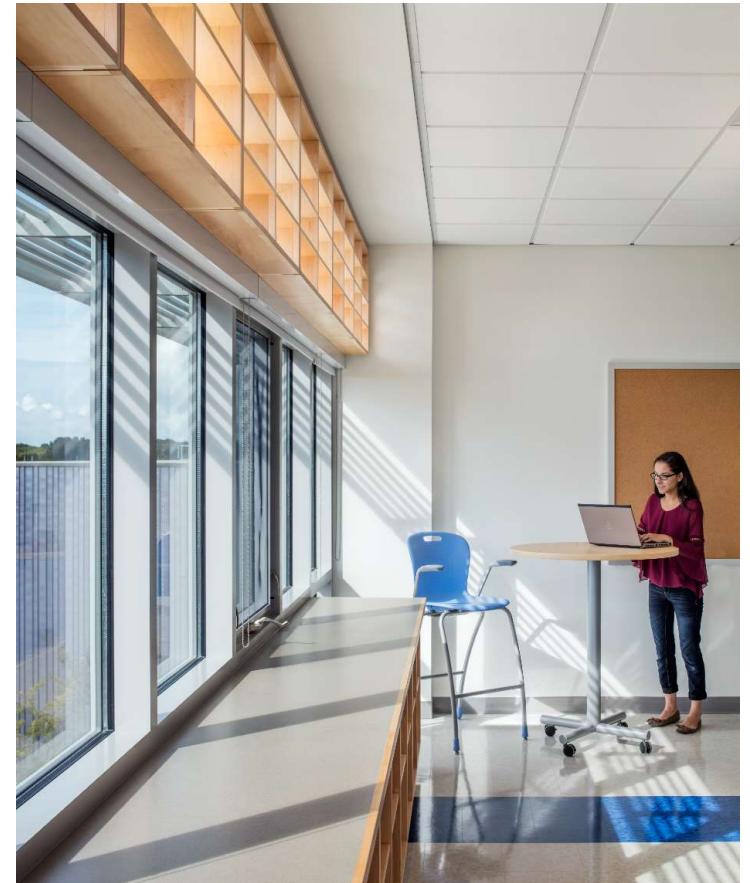
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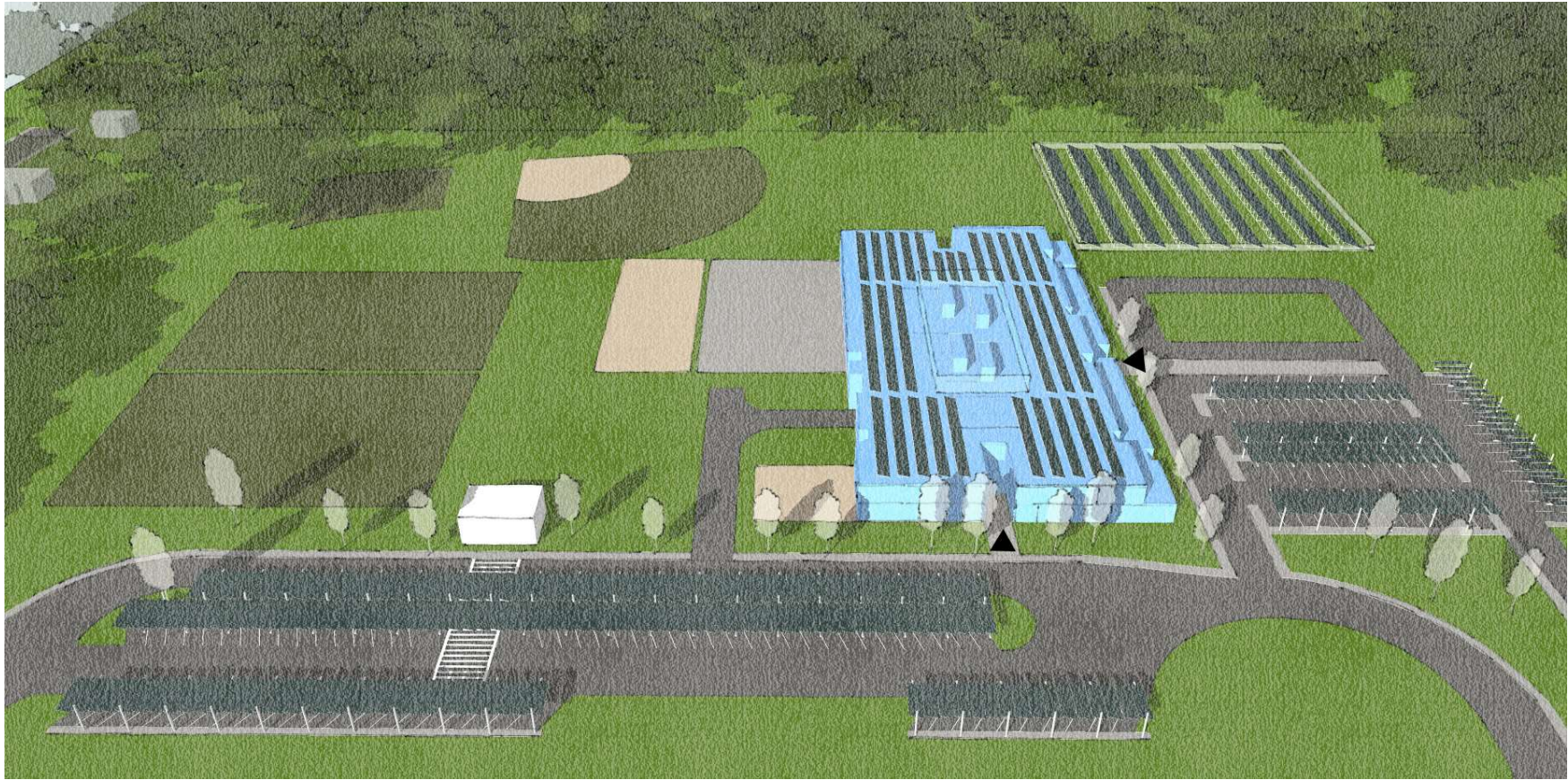
Design Options | **Non-Negotiables**

Included in Options A – E:

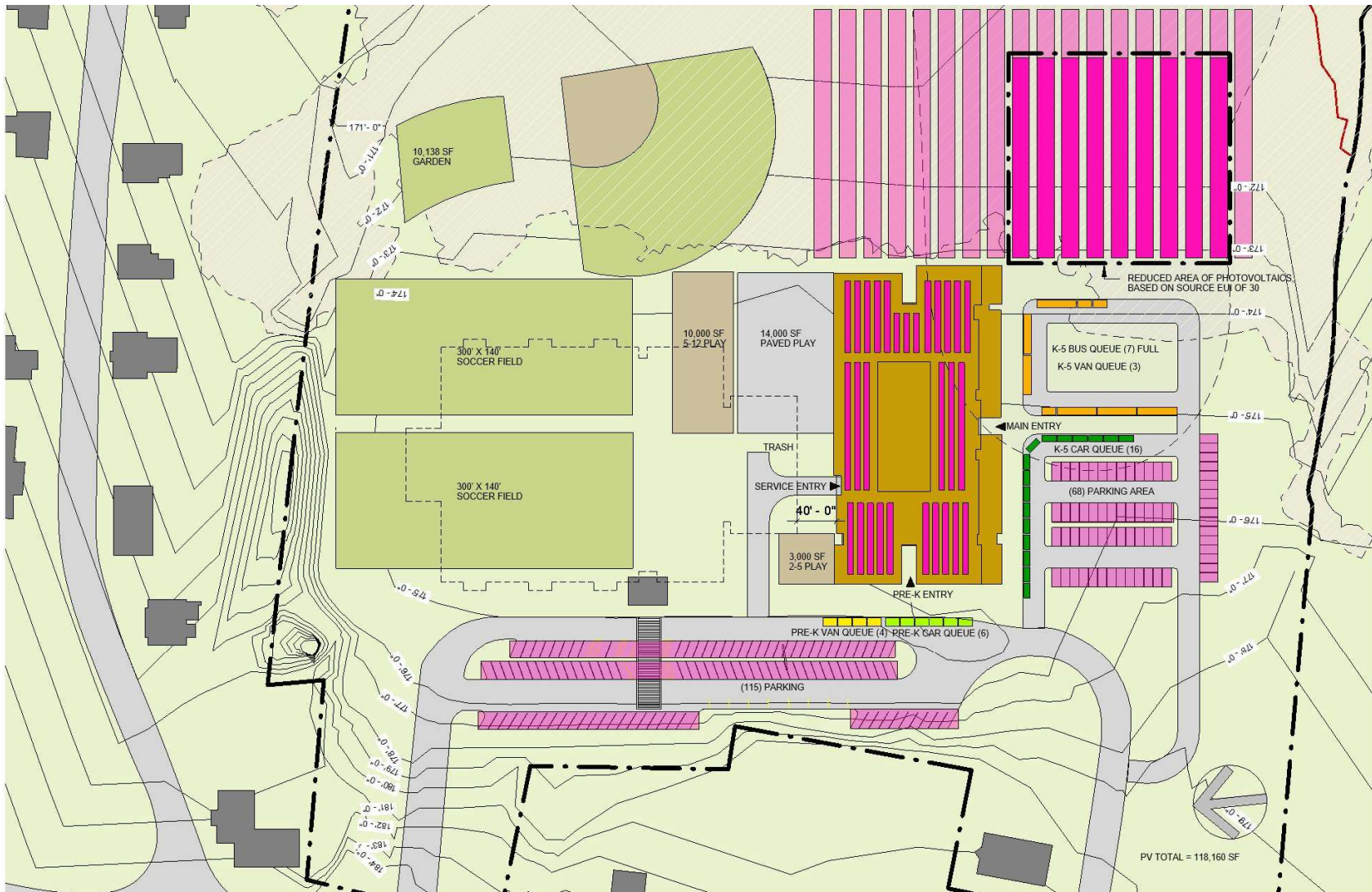
- ✓ Natural Light in all Classrooms
- ✓ Good air quality / ventilation / circulation
- ✓ Good Acoustics (ANSI S12.60)
- ✓ Elimination of open classroom design
- ✓ Compliance with Town's Net Zero bylaw
- ✓ Sustainable design
- ✓ Flexibility in case of increased enrollment in the future
- ✓ Adequate space for program needs
- ✓ Cost and Environmental analysis that includes construction, demolition, swing space, operations
- ✓ Accessible
- ✓ Building and Energy code compliance



100% NEW



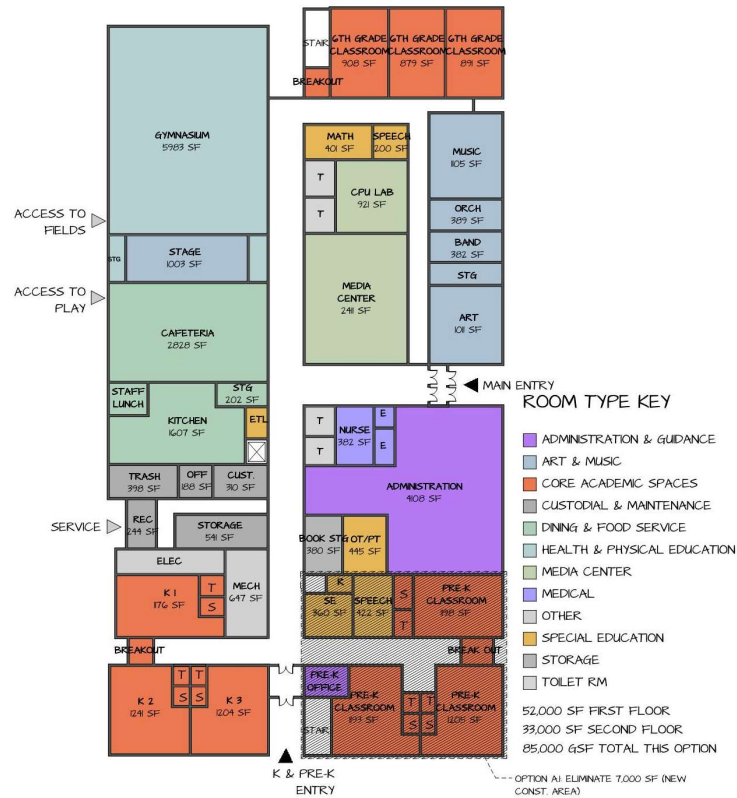
AMHERST FORT RIVER SCHOOL AERIAL VIEW OPTION A



AMHERST, FORT RIVER SCHOOL SITE PLAN OPTION A

TSKP STUDIO

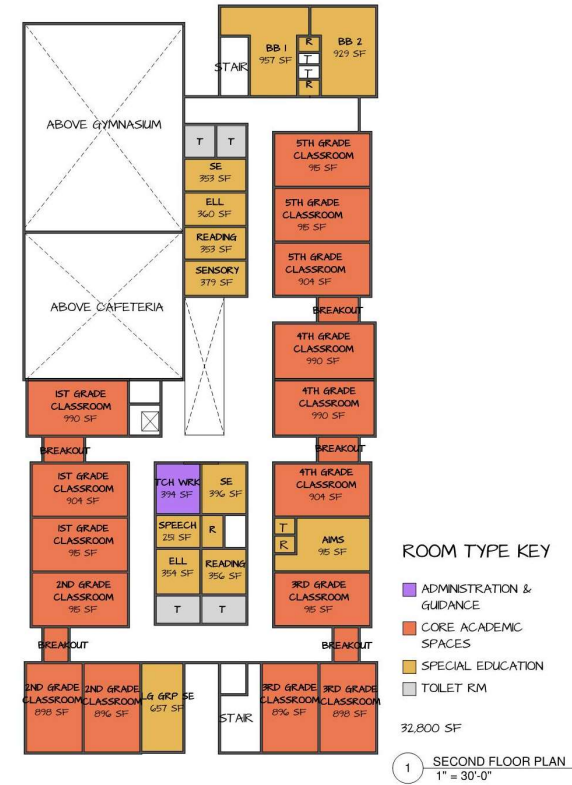
03/29/18



AMHERST, FORT RIVER SCHOOL OPTION A, A.I

TSKP STUDIO

06/19/18

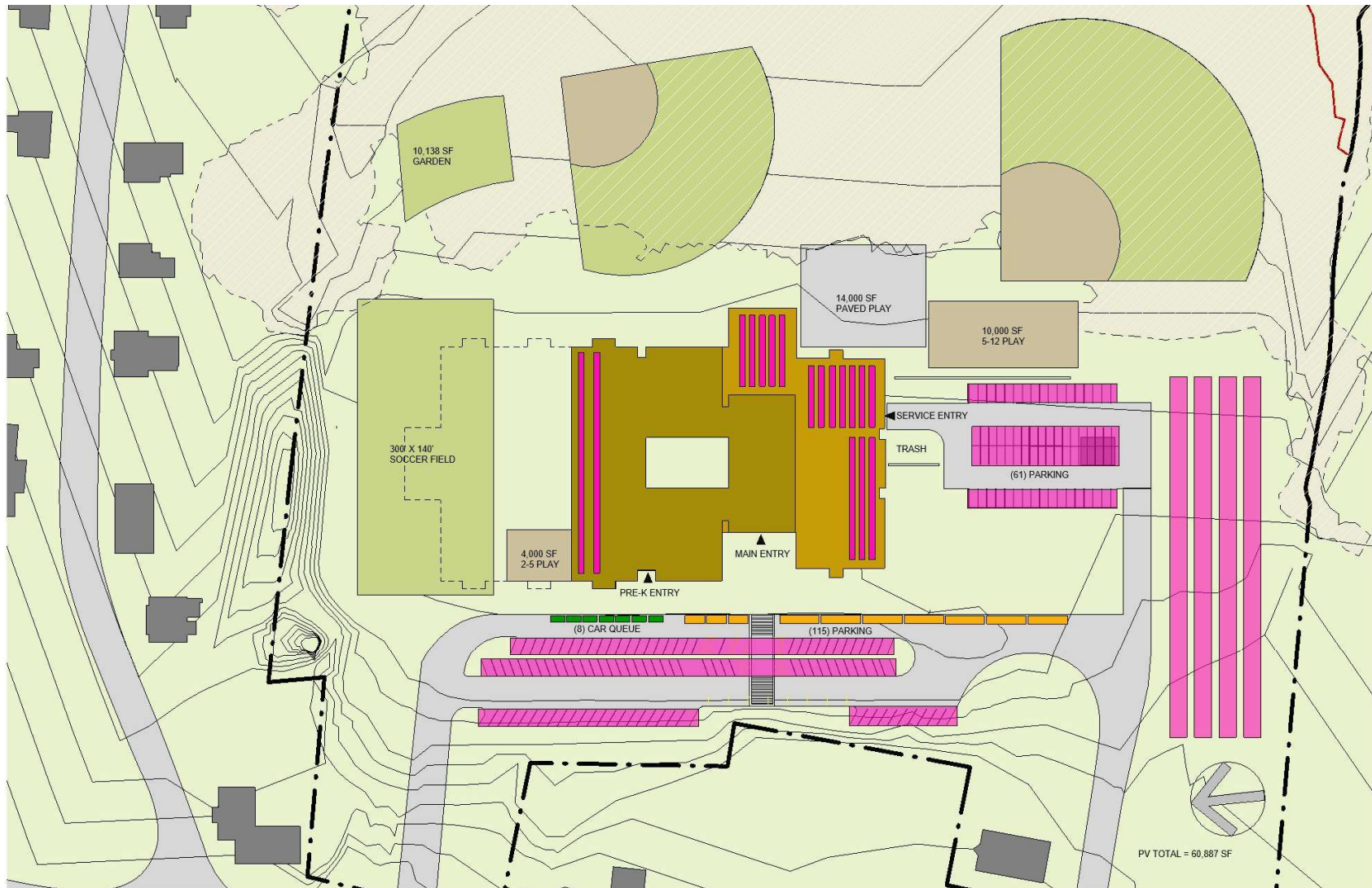


AMHERST, FORT RIVER SCHOOL OPTION A, A.I

50% NEW



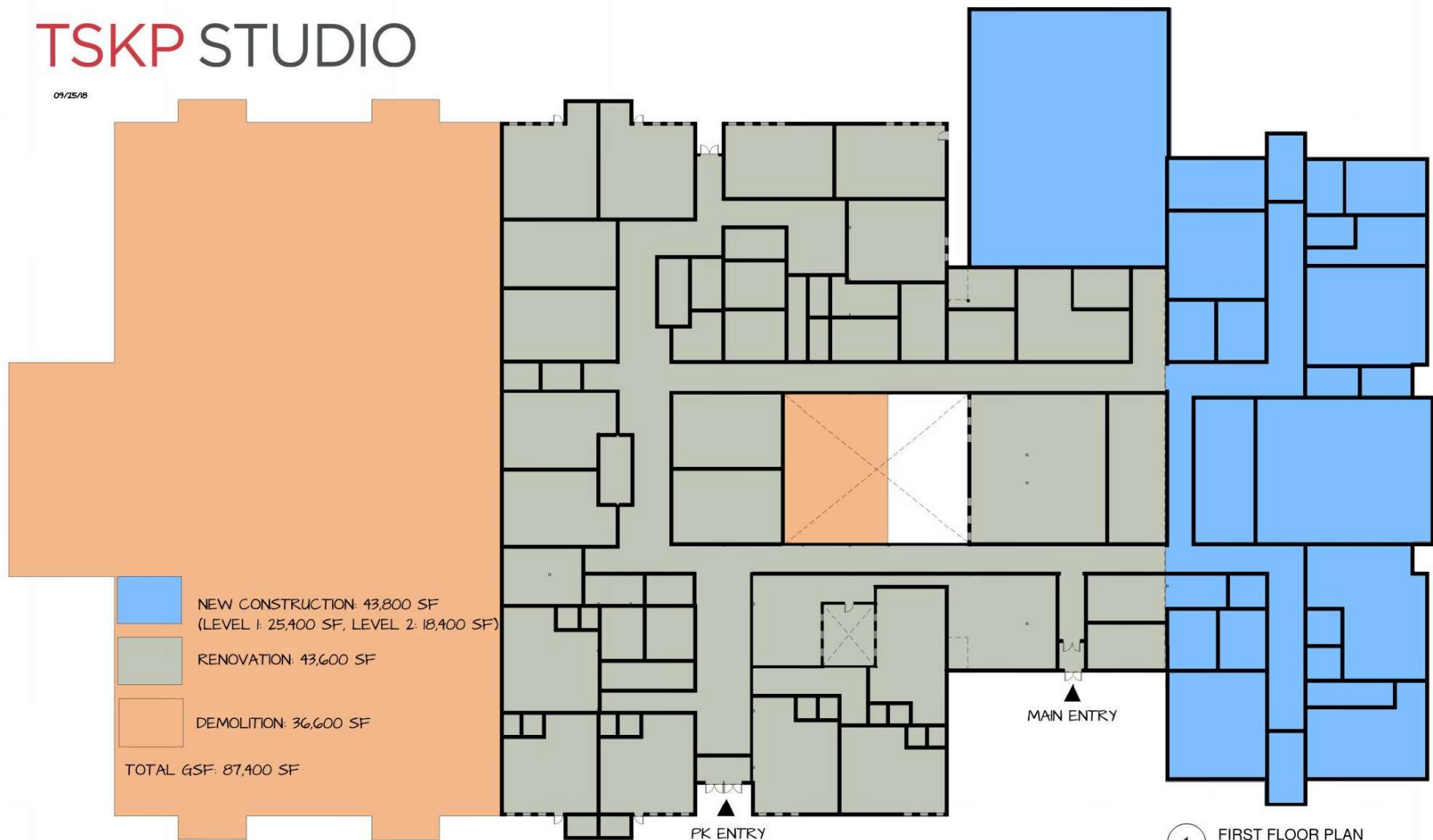
AMHERST FORT RIVER SCHOOL AERIAL VIEW OPTION B



AMHERST, FORT RIVER SCHOOL SITE PLAN OPTION B

TSKP STUDIO

09/25/18



AMHERST, FORT RIVER SCHOOL NEW, RENO, DEMO, OPTION B³²

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ROOM TYPE KEY

- ADMINISTRATION
- ART & MUSIC
- CORE ACADEMIC SPACES
- CUSTODIAL & MAINTENANCE
- DINING & FOOD SERVICE
- HEALTH & PHYSICAL EDUCATION
- MEDIA CENTER
- MEDICAL
- NON-PROGRAMMED SPACES
- OTHER
- SPECIAL EDUCATION
- STORAGE
- TOILET ROOMS

LEVEL 2: 18,400 SF
LEVEL 1: 69,000 SF
TOTAL: 87,400 SF

ACCESS TO
PK PLAY

PK ENTRY

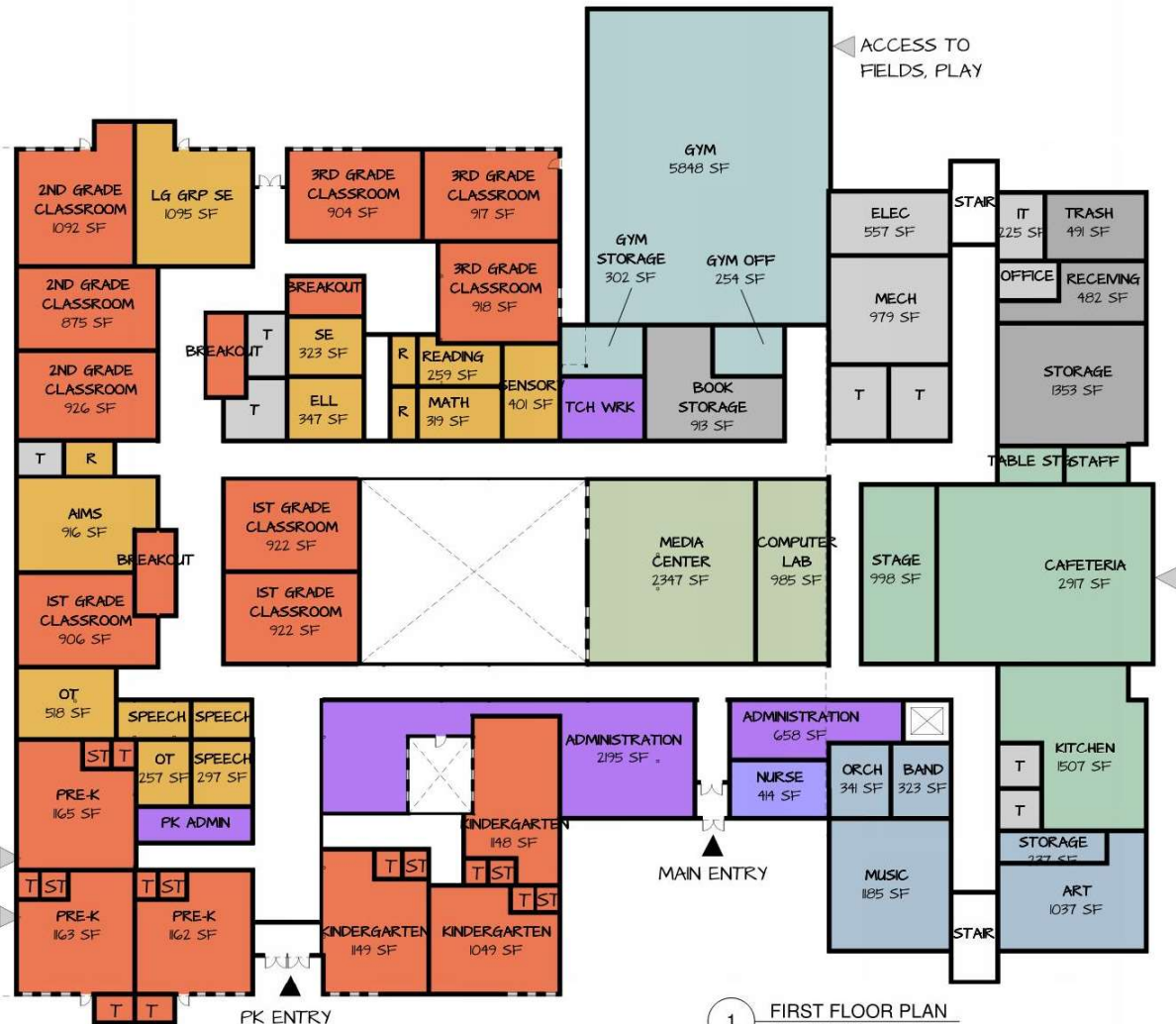
MAIN ENTRY

ACCESS TO
FIELDS, PLAY

1 FIRST FLOOR PLAN
1" = 30'-0"

AMHERST, FORT RIVER SCHOOL

OPTION B, B.1



TSKP STUDIO

09/25/18



1 SECOND FLOOR PLAN
1" = 30'-0"

AMHERST, FORT RIVER SCHOOL

OPTION B, B.I. 3.4

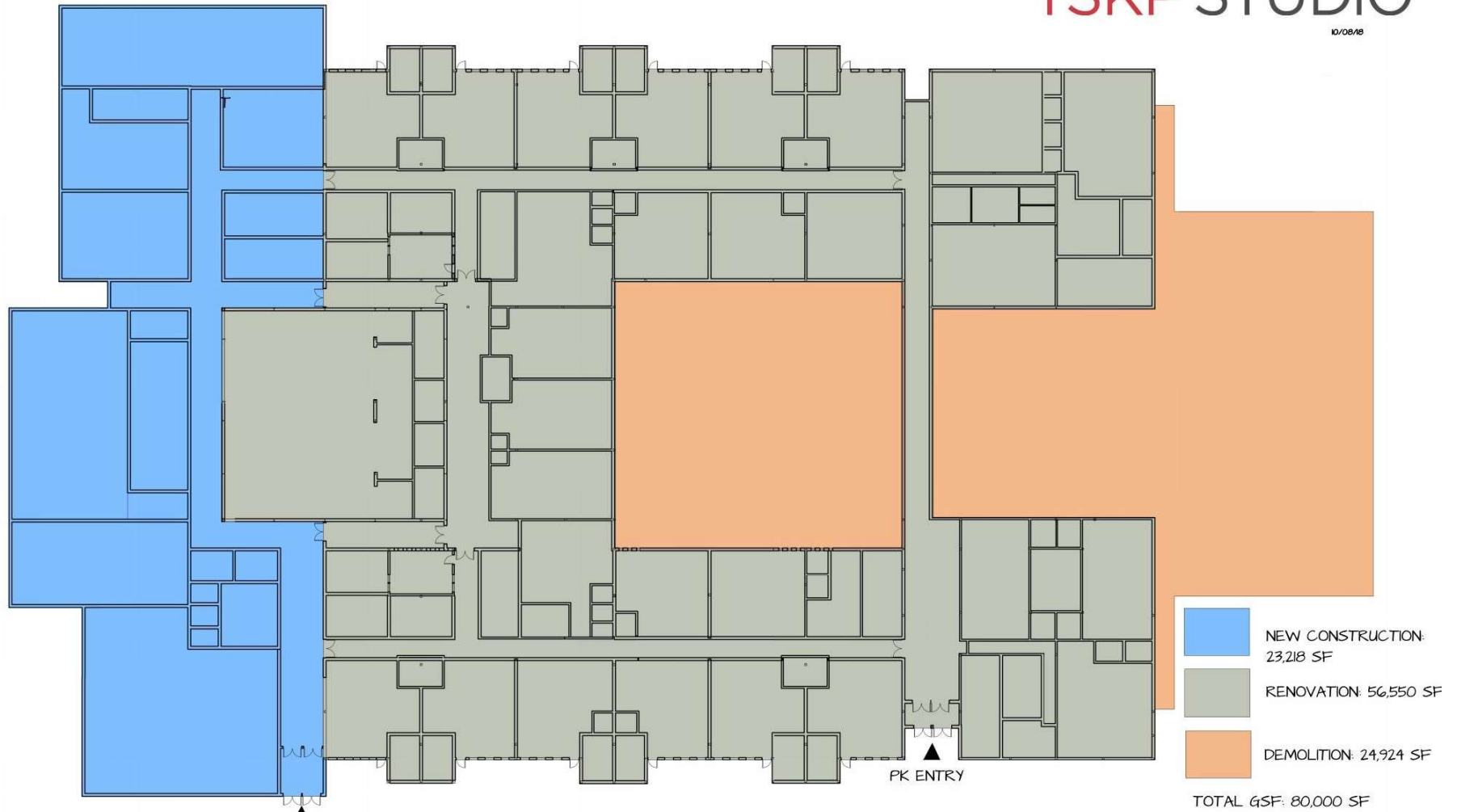
29% NEW



AMHERST FORT RIVER SCHOOL AERIAL VIEW OPTION C



AMHERST, FORT RIVER SCHOOL SITE PLAN OPTION C

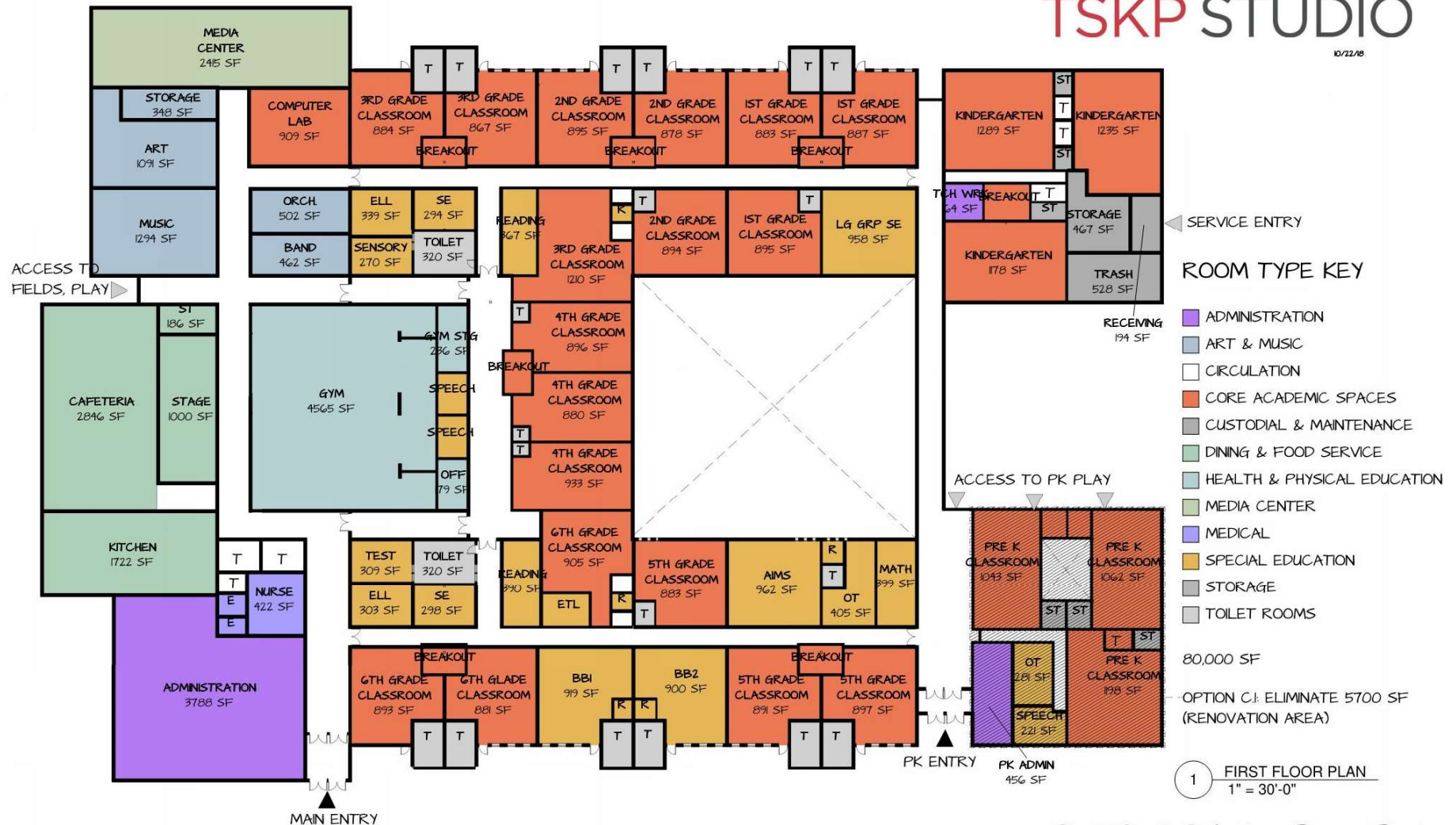


AMHERST, FORT RIVER SCHOOL

NEW, RENO, DEMO, OPTION C

TSKP STUDIO

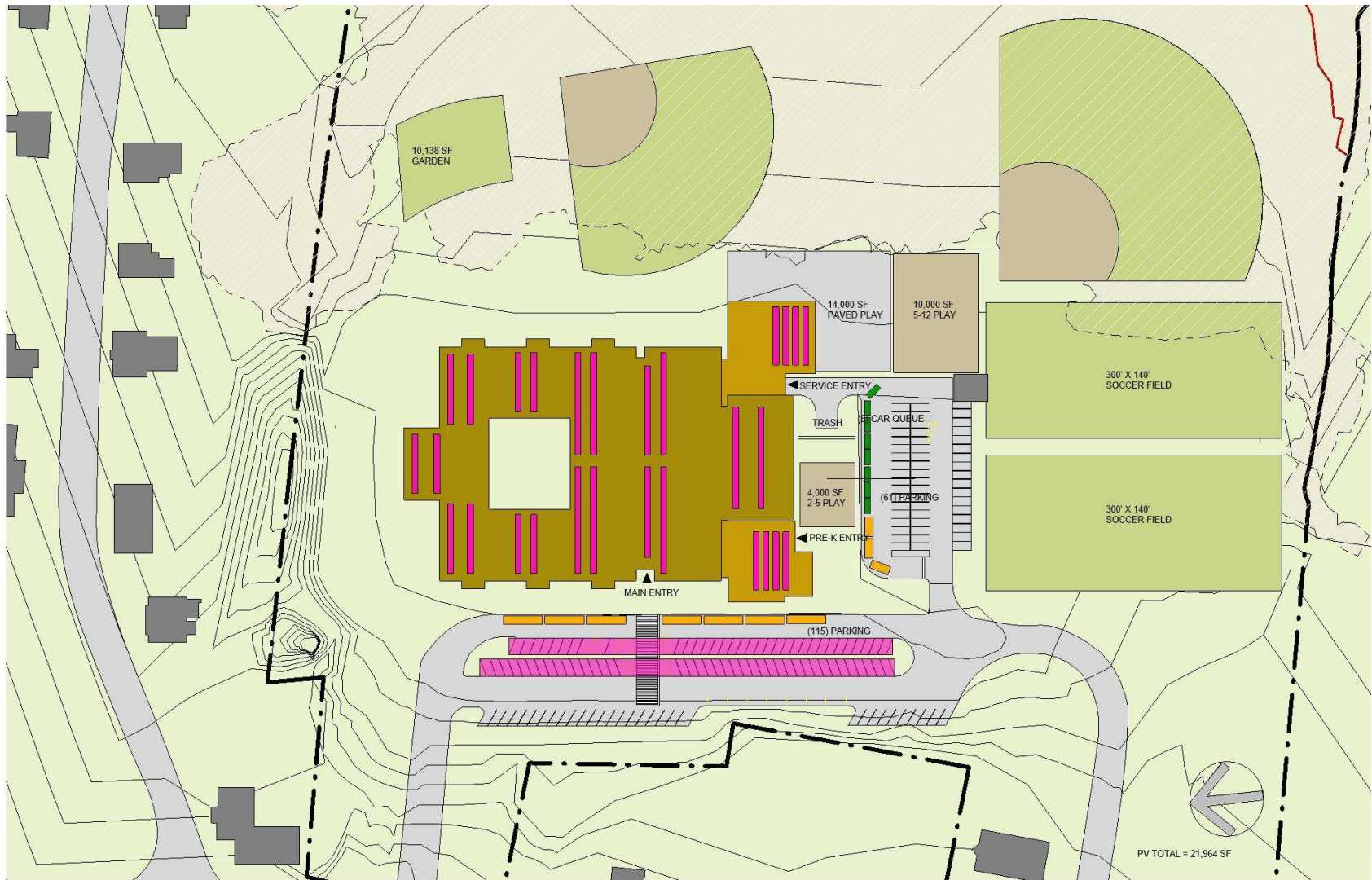
10/22/08



18% NEW



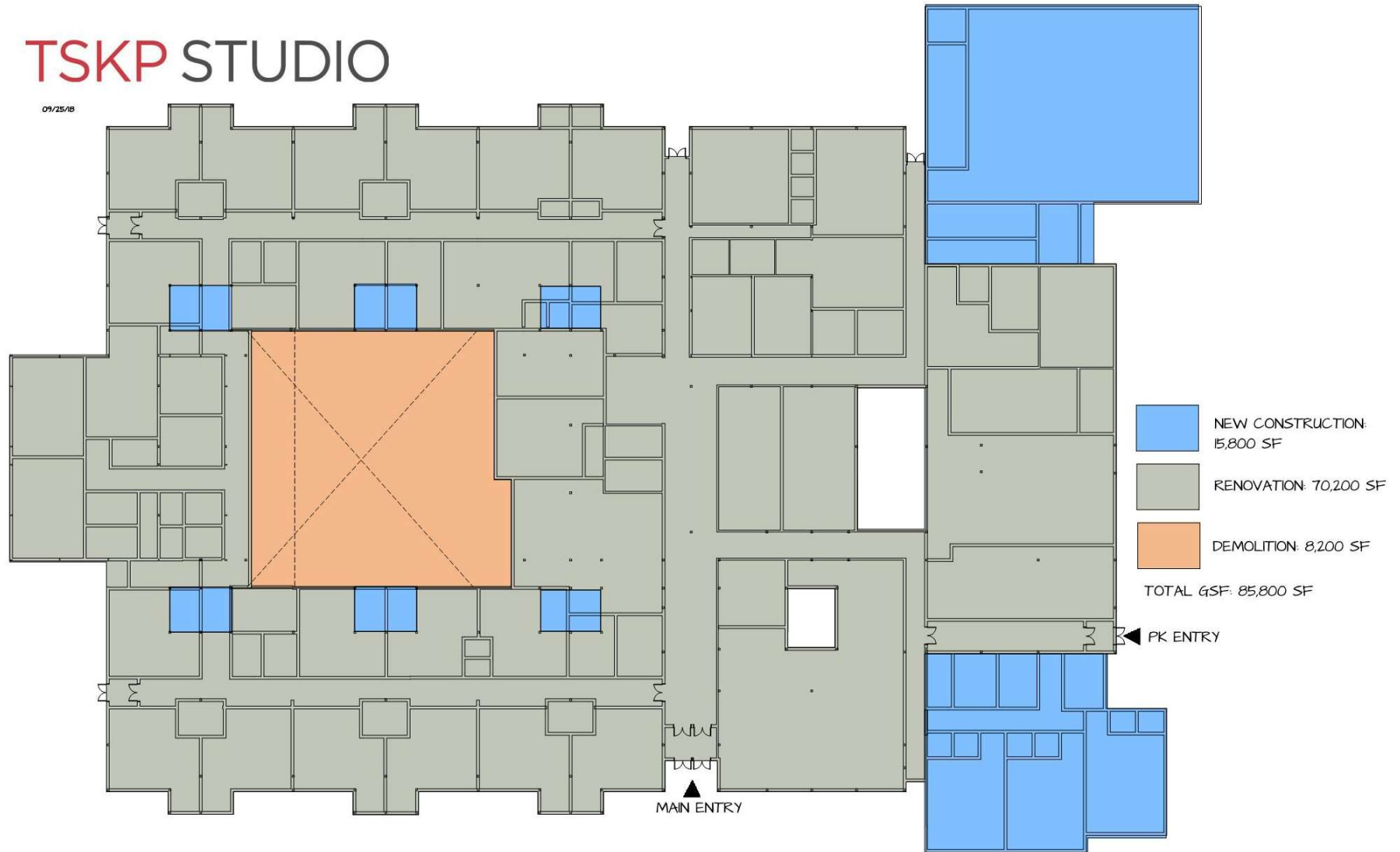
AMHERST FORT RIVER SCHOOL AERIAL VIEW OPTION D



AMHERST, FORT RIVER SCHOOL SITE PLAN OPTION D

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09/25/16



AMHERST, FORT RIVER SCHOOL

NEW, RENO, DEMO, OPTION D

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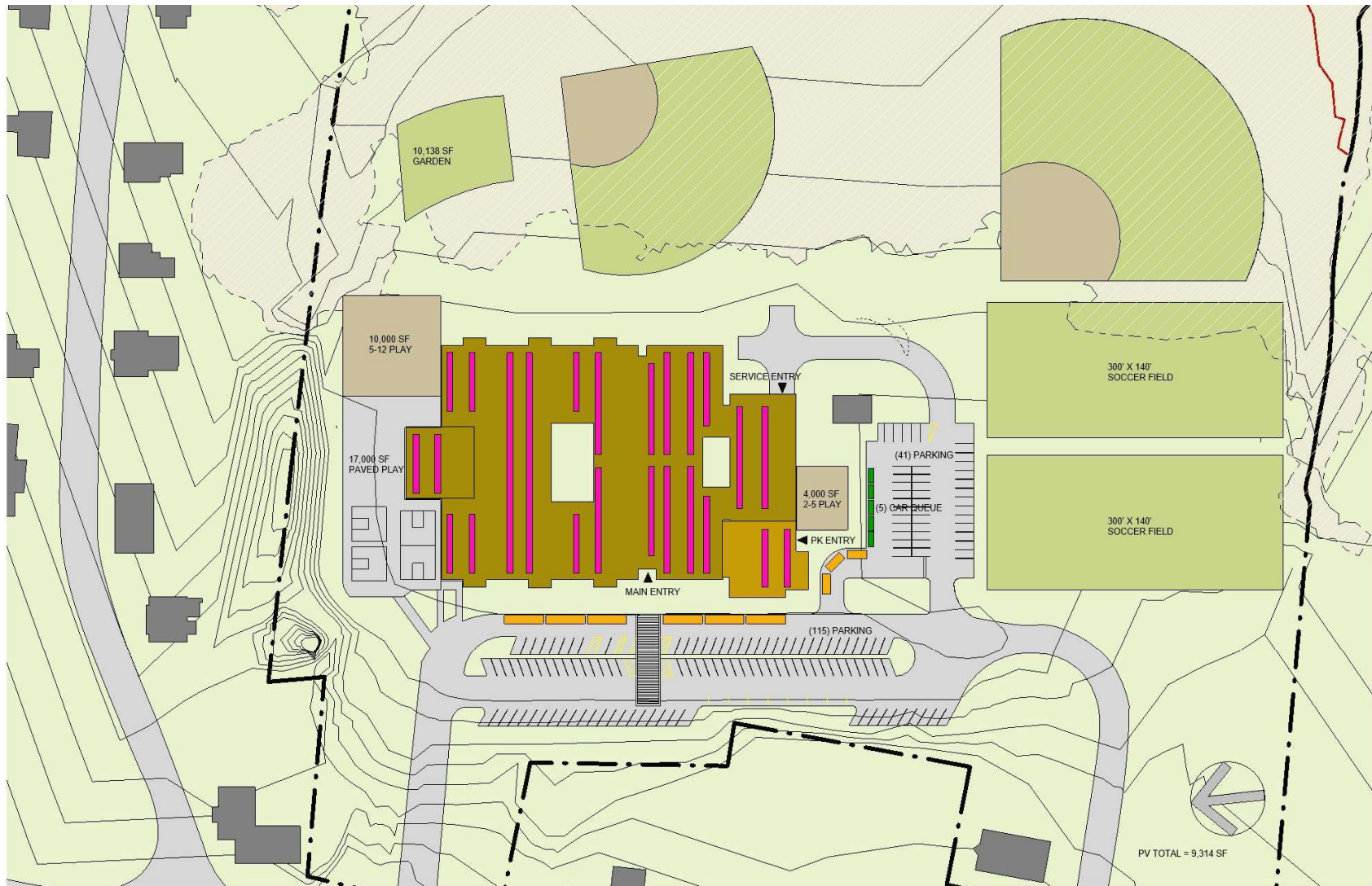


OPTION D, D.I 42

7% NEW



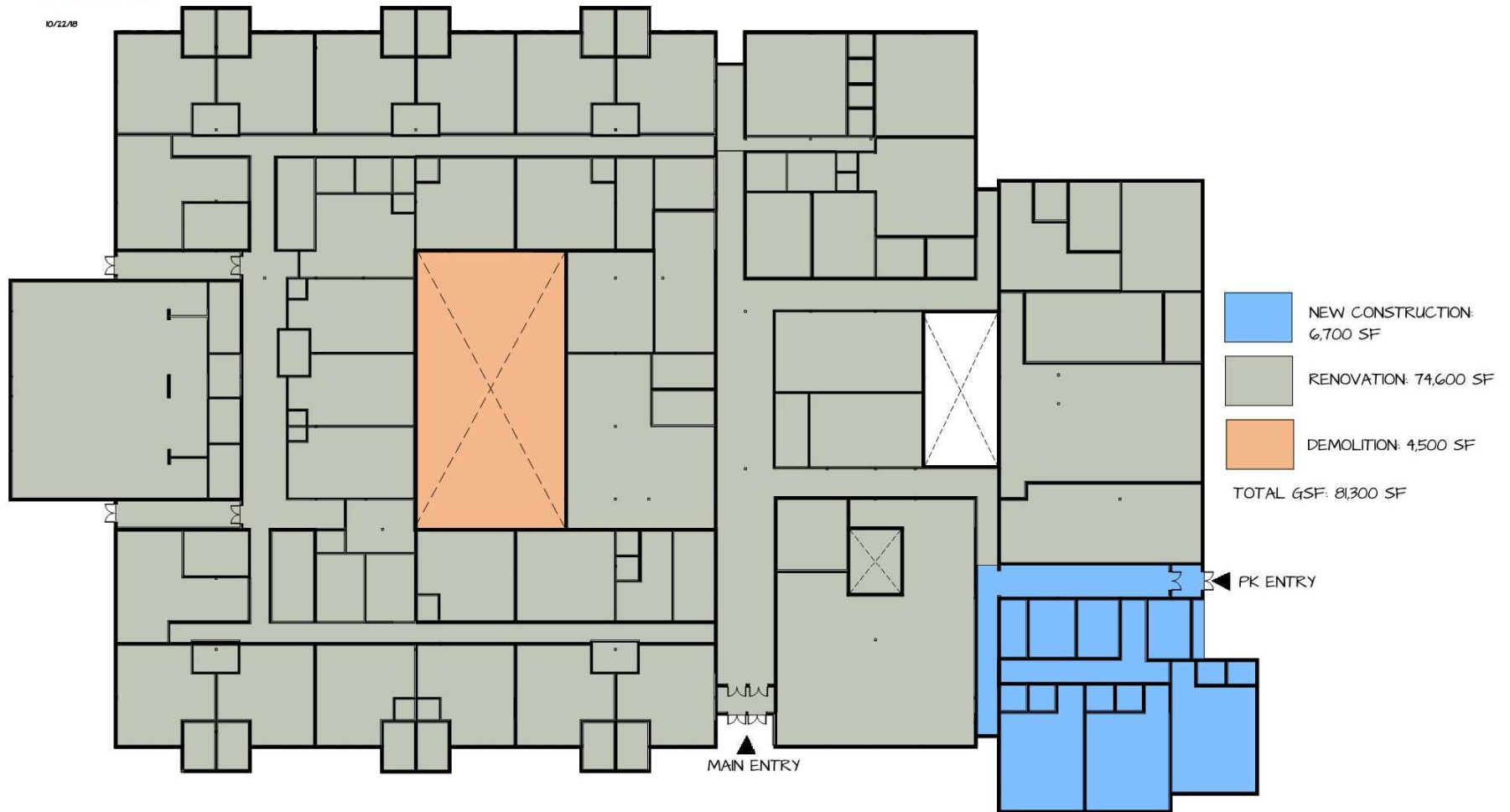
AMHERST FORT RIVER SCHOOL AERIAL VIEW OPTION E



AMHERST, FORT RIVER SCHOOL SITE PLAN OPTION E

TSKP STUDIO

10/22/08



AMHERST, FORT RIVER SCHOOL

NEW, RENO, DEMO, OPTION E⁴⁵

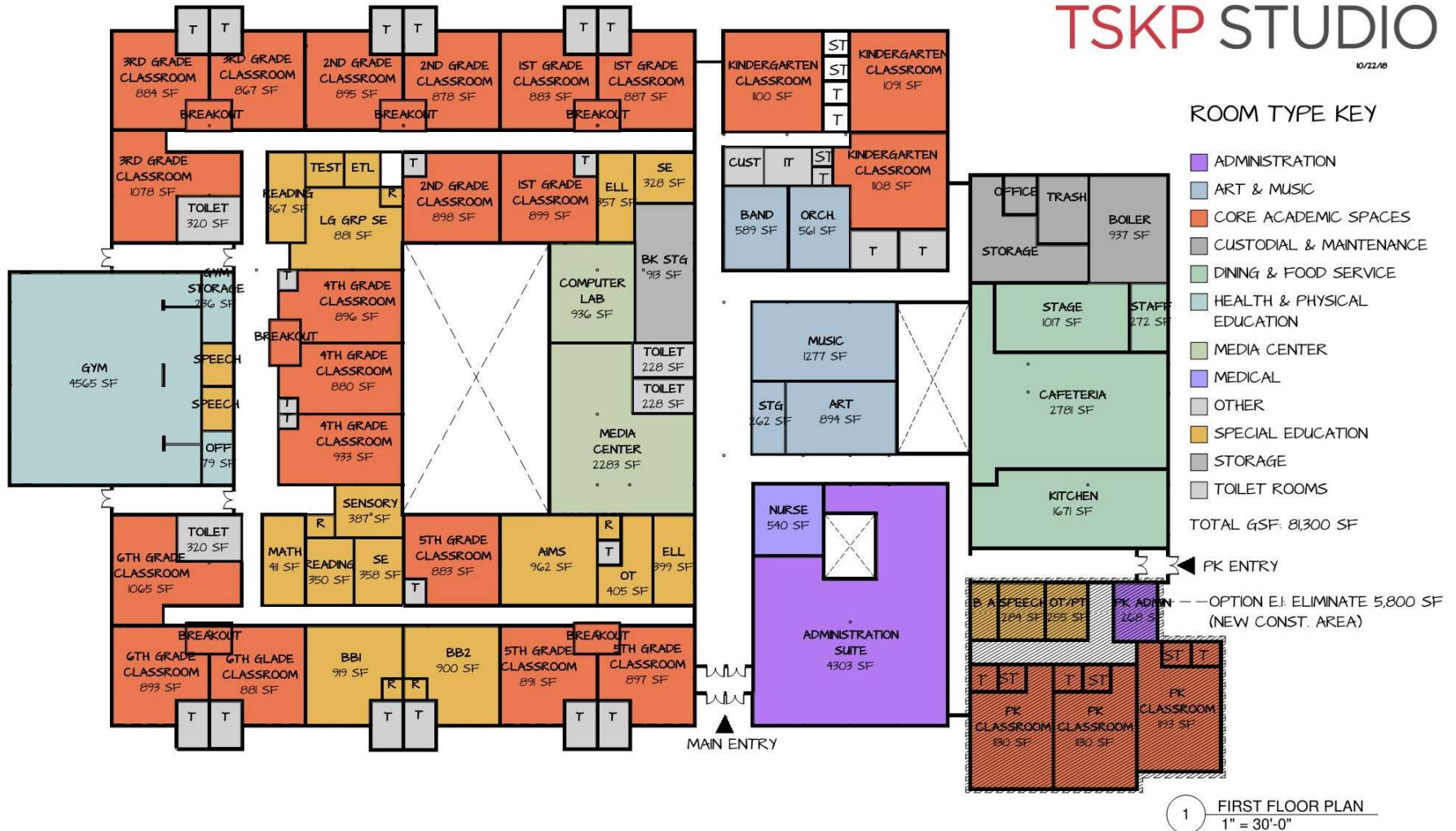
TSKP STUDIO

10/22/18

ROOM TYPE KEY

- ADMINISTRATION
- ART & MUSIC
- CORE ACADEMIC SPACES
- CUSTODIAL & MAINTENANCE
- DINING & FOOD SERVICE
- HEALTH & PHYSICAL EDUCATION
- MEDIA CENTER
- MEDICAL
- OTHER
- SPECIAL EDUCATION
- STORAGE
- TOILET ROOMS

TOTAL GSF: 81,300 SF



AMHERST, FORT RIVER SCHOOL

OPTION E, E.I

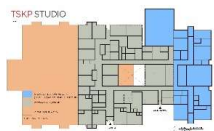


0% NEW

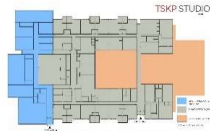
- Abatement
- Roof replaced
- Windows replaced
- Reconfigure restrooms, doors, walls, etc to be ADA accessible
- Replace mechanical systems. Keep existing boilers.
- Replace electrical, interior lighting, fire alarm.
- New Sprinkler System
- Ceilings and Floor finishes replaced.
- Re-paving existing asphalt areas and resetting granite curbing
- Replacing playground equipment and surfacing

AMHERST FORT RIVER SCHOOL AERIAL VIEW OPTION F

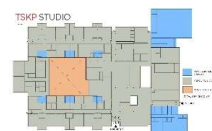
A



B



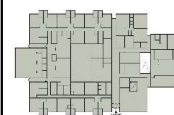
C



D



E



F

48

